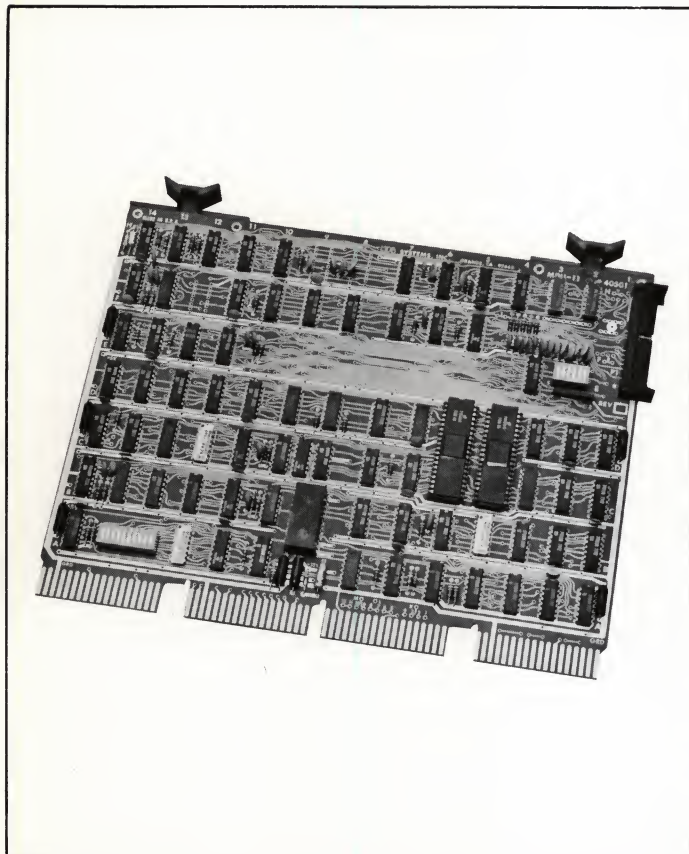


MDB

MDU-11 SYNCHRONOUS SERIAL LINE ADAPTER for use with PDP*-11 Computers



MDB Systems Synchronous Serial Line Adapter for PDP-11* Computers

- DEC DU-11 plug-compatible
- Baud rates to 100 K baud
- Parallel-serial and serial-parallel conversion
- Complete modem control
- Full duplex or half duplex operation
- Processes synchronous or isochronous data
- Five registers including parameter control register
- Double buffered interrupt
- Switch selectable address and interrupt vector
- EIA level converters
- Wide variety of applications
- Interfaces to BELL 201 or 303 synchronous modems

The MDB Systems MDU-11 module is a high speed synchronous single line program controlled data interface designed to accommodate two-way simultaneous data transfers.

The MDU-11 is functionally equivalent and software-compatible with the DEC DU-11 synchronous line interface. A programmable sync character code establishes synchronization of the MDB MDU-11 and the external data communication device.

Transmitter and receiver double buffered logic permits a full character time for handling of interrupts. Parallel-to-serial conversion of data from the PDP-11 Unibus* is accomplished by the transmitter circuitry and serial-to-parallel conversion is done through the receiver logic circuit.

The transmitter and receiver registers control specific parameters assigned to receiver and transmitter functions. The write-only parameter control register is programmable for isochronous, internal, or external synchronous modes, sync character form and other functions.

Control of popular modems is accomplished by the MDU-11 monitoring the modem status lines and providing appropriate control signals to the modem.

A programmed interrupt can occur when the MDU-11 recognizes a change in the dataset status. Under interrupt control two contiguous interrupt vectors are generated by the MDU-11 providing separate program intervention for the receiver and transmitter. Program control of interrupt source provides additional control of dataset control lines and data transfers.

EIA level converters provide standard output logic voltage levels to popular dataset systems.

A large selection of applications such as inter-computer data transfer, data collection, and interfacing of various remote terminals are among the many uses for the MDB MDU-11 interface module.

The board comes with a 25 foot ribbon-cable with mating connectors furnished for connection to most data sets.

ELECTRICAL REQUIREMENTS:

- +5V at 2A; -15V at .15A

PHYSICAL:

- Occupies one quad slot of standard system unit

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